A.P.I. No. <u>097-90201</u>

WELL SUMMARY REPORT - GEOTHERMAL

Operator								Well Name and Number									
Union Oil		D.X. State 4596-30 Plug and Abandonment. County Sec. T. R. B.&M.															
Field		ounty			Sec.	- 1	T.	R.									
Geysers (onoma				6		1N	8W	M.D.							
Location (property or section corner, or str								ter lin	es)	l 	Elevat				1 \		
78.88m North and 127375m East of the SW corne								ection	6,	TllN,	1 '		ove s	ea leve	1)		
R8W, M.D					. 		 t					6.2		of:			
								depth Depth measurements taken from top of: ers)derrick floorrotary table XXkelly bush									
<u> </u>							ers) derrick floorrotary table XXKelly								Daniti		
Completed drilling 2910.1						'A		which is 8.53 meters above ground									
01-01-77 Geologic							ıa		ogic mar		Depth (meters)						
Commence	-	ing		at total depth ciscan- <u>Jur., Cret.</u>				Ge	.010	JETE MAL	nci (b)	Jop on (moore)					
02-14-77			Fran	ncisca	n-Jur.,	, Cre	*c					į					
Junk		MOME					NONE N/A						N/A				
		NONE		 				PRODU		T DATA							
n AMG		STATIC TES (shut-in well				Fal. N	Mass F	Flow Data					Separator Data				
DATE	Temp		Press		Ten			Enthalpy		Orifice			Steam Press		Temp		
	*C	1 -	rs	kg/h		- 1	bars		-1.7		kg/hr	1	kg/hr	bars	°C		
12-28-76			.37					K-GAL	/Kg			1			1		
12-28-76		_		56,67	5 18:	3	9.10	1		12.7cm		1					
12-28-76				50,78	1	- 1	8.20	661.		12.7cm	1	1			1		
12-28-76		- 1	49,874		J		8.14	1		12.7cm		1			1		
12-28-76			49,874 178			8.14 661		09	12.7cm	<u> </u>			<u> </u>	<u> </u>			
<u> </u>	<u> </u>					, RE	CORD	(prese	at :	hole)							
Size of	Top of	Depth of	Weig	ht of	ht of New or S		mless	Grade			Volume of Depth						
Casing	-			ing	Second		or of		Hole Drld		· · · · · · · · · · · · · · · · · · ·		hroug	igh Perforations			
(API)	(m)	(m)	(k	g)) Hand L		weld	Casing		(cm)	(cu.m)			(m)			
50.8 cm	Surf.	81.68	14	0.1	New	ſ	mless	4		66.04	17.3	-		N/A			
34 cm	Surf.	460.41	8	1.2	New	sea	mless			44.45	45.89		N/A				
24.4 cm	396.5	1315.20	5	9.6	New	sea	seamless K-55 31.12 42.38					1	N/A				
PERFORA	TED CASI	NG (size	top	botte	om, per	fora	ted in	nterval	s,	size and	spacin	g of	perf	oration	and		
method)		, , , , , , , , , , , , , , , , , , , ,	,		, , -						-	_					
McCliou,																	
NONE																	
	lvsis of	effluent	made	?		E1	ectri	hs	Temperature Depths				epths				
•	YES	1	XX OZ	(ł		NONE NONE										
In comp.	liance w	ith Sect	ion 37	35, C	hapter	4, D	ivisi	on 3 of	th	e Public	Resour	ces	Code,	the			
informa	tion giv	en herew	ith is	a co	mplete	and	corre	ct reco	rd	of the 1	present	cond	ition	of the	well		
and all	work do	ne there	on, so	far	as can	be d	leterm	ined fr	om	all ava:	llable r	ecor	ds.				
				·													
NAME								TITLE									
Joel P. Robinson								Ag	<u>:</u>								
ADDRESS							CITY				L L				CODE		
3576 Unocal Place TELEPHONE NUMBER SIGNATURE								<u>Sa</u>	nta	Rosa	95401						
	NE NUMBE	R	9	SIGNAT	URB Z	0/1	The second	mon	_0	~	DA	TE	2/14/89				
<u>(707) 5</u>	<u>45-7600</u>																
	File	this rep	ort in	ı dupl	rcate w	v1th	the a	ppropri	ate	e geotne	rnai 015	CI 1C	c orr	rce.			

A.P.I. No. <u>097-90201</u>

(ENGLISH)

SUMMARY WELL

REPORT - GEOTHERMAL

Operator									11 Name and Number								
Union Oil Company of California DX Sta									ate 4597-30 Plug and Abandonment Sec. T. R. B.&M.								
Field										Sec.	T.		R.	M.D.			
Geysers G	Sonoma			6	11N		W8	n.v.									
Location (property or section corner, or street cer 258.8' North and 4179.17' East of the SW corner of									nter lines) Elevation of ground Section 6, TllN, (feet above sea level)								
		4179.17	East	of t	he SW c	OFT	ner of	Section	6,	TIIN,	1	36	sea	TeAGT)			
R8W. M.D.			<u> </u>		. 		 1	D 1 1 -						of:			
							depth Depth measurements taken from top of:								huchin		
11-15-76	feet) (feet)				derrick floorrotary table XXkelly b												
Completed	drilli	ng		3481			which is 28 feet above ground										
01-01-77			ormatic		and		ogic mar		Depth (feet)								
Commenced			tal der			3-6	OBIC MAL	RCI (D)	}								
02-14-77			rranc	ciscan	-Jur.,	CF-	et	i									
Junk	ME				l l					NONE			N/A				
NC	NE CT	ATIC TES		 				PRODUCTION TEST DATA									
DATE	1	in well	J				Mage I	flow Dat			1	Sepa	Separator Data				
DAIR	Temp		ess ess		Ter			s Enthalpy		Orifice	Water	Ste		Press	Temp		
	·F		ess si	lbs/t		_	psi	Bucharpy		0111100	lbs/hr	lbs/hr					
12-28-76	361		10		-					 					1		
12-28-76				125.0	125,000 361		132	İ		5"	l	ł	į		1		
12-28-76	İ	1		112.0	J	J				5"	į	ļ			}		
12-28-76		1			10,000 352		118	5"		1		i		1			
12-28-76	1			110,0	000 35	2	118			5"	<u> </u>	<u> </u>			<u> </u>		
			1		CASING			(prese	_			_					
Size of Top of Depth of Weight of New or Seamless									I I					of Depth of Cementing			
Casing	Casing	Shoe	Cas	Casing Second			or of Hole Drld			Cement Through Perfo				ations			
(API)	(feet)					_	pweld	Casing	<u> </u>	(")	(cu. ft.	٧					
20"	Surf.	268	_	4	New	1	amless		l	26	610	1	N/A				
13-3/8"	Surf.	1510	1	4.5	New	seamless		ž .		17.5	1620	N/A					
9-5/8"	1300	4315	1	0	New	ł	amless	Į.		12.25	1496 N/A						
PERFORAT	ED CASI	NG (size,	top,	bott	om, per	for	ated i	nterval	s,¯	size and	spacing	of p	erf	oration	and		
method)																	
NONE	······································				t												
Was anal	ysis of	effluent	made	?		E								emperature Depths			
	ES		XX O		<u> </u>		NONE	ion 3 of the Public Resources Code, the									
-					-										11		
											resent c			or cue	well		
and all	work do	ne thered	n, so	far	as can	be	determ	ined fr	om	all ava	ilable re	coras	•				
NAME								1	TIT								
Joel P.	Robinso	n							ent				-+-	~~~			
ADDRESS									CITY ZIP COD								
3576 Uno								<u>l</u> Sa	nta	Rosa				9540)1		
TELEPHON		K	S	IGNAT	OKR <	de	e/Sa	ofon	~~		DAT	50 l	14	189			
<u>(707) 54</u>		thic ross	ort in	dun 1			7 12	nnnonni	2+0	gentha	rmal dist	rict	OFF	fice			
	LITE	cura reho	AF TH	ւ զոհյ	reages w	, 1 L J.	ı cire a	. ԽԽ. օ հ	alt	- Peorne	THOT GIST		J. 1				

UNION OIL COMPANY OF CALIFORNIA GEOTHERMAL DIVISION

WELL RECORD

LEASE	DV Chai	- ^					SPUD			P&A	12/17	/00			
WELL #	DX Stat 4596-30		ıq and	Aban	don		DATE CONTR	ACTOR	R Arti	DATE La Coi	12/17 led Tu				
FIELD	LD Geysers							RIG #							
LOCATION	2558.8 of the					ELEVATIONS: GROUND 3236'									
	TIIN,				CCIOII (K.B. TO GROUND N/A K.B. TO LOWER CASING HEAD N/A									
B.H.L.	926' No	orth a	and 39'		t of						, ,	=-/			
DDDMU. mr	surface				H.M.D. D.	-			EXPL.	•	DEV.	XX			
DEPTH: TI	9548	TVI	9431		ETD P8	KA	OBS	WTR	STM	DRY	INJ.				
APPROVED	Derr	m He	הולחי						PERVIS		Furry				
		\supset													
	_	_			ASING H										
SIZE 20"	WEIGHT	<u>ר</u> (GRADE		HREAD		$\frac{\overline{OP}}{P}$	BOTT		REMA					
13-3/8"	94# 54.5#		H-40 K-55		ttress ttress		urf.	15	58°		nted nted				
9-5/8"	40#		K-55		ttress		300	43			nted				
			· · · · · ·												
		(CASING		L HEAD		BLY SPOOL	. на	IGER SI	POOT.	XO SP	OOT			
MAKE:	Nor	_			andonme										
TYPE:															
SERIAL NO DESCRIPTI					. <u></u>										
SIZE	LON			····				-							
I.D.					·		 -		_						
LENGTH															
PRESS. RA	ATING (1	PSI) _				 .									
		1	MASTER		VALV						a				
MAKE:	No	one <u>r</u>	IASTER		CASINO	HEAL	2 5	EXPANS	SION SI	POOL	SWAB				
TYPE:					· · · · · · · · · · · · · · · · · · ·										
SERIAL NO															
SIZE & I. PRESS. RA		TP						 -							
															
STEAM ENT		•	PSI	101	DEDEL		PS					SI			
	DEPTH 4640		NCREAS 20#	<u>E</u>	DEPTH 8303	<u></u>	INCRE 45#		DEI	PTH_	INCR	EASE			
	5905	- -	70#	_		<u>- </u>									
					FORATIO	INIC				******					
PERFORATE	ED LINER	₹:		FROM		TO		F	ROM BI	LANK T	20				
PERFORAT	TION DES	GIGN		N/A			_			·	<u> </u>				
TEST DATA	\ <u>.</u>								RIFICE	C T 7 E	2: 5				
TEST DA	ATE	V	NHP		BLP		TEMP			IDS/HC					
12-28-7	76	<u>127</u>	psi	1	1 <mark>8 p</mark> si		353°F	-		0,000					
ACCUTUBE	TEST DA	TA:													
TEST DA	TE			WHP	7	EMP	PO	OUNDS/	'HOUR	ACC	UTUBE	SIZE			
N/A		asure		150	_ _	777									
		ijuste a su re		150	<u> </u>	J/A	_								
		ijuste		150		1/A									
REMARKS:	Howas F	77.037						2 2 2		0165	·				
: СЛЯВПал	Howco E			<u>.</u> 222'	Cement . Pluc		#1 fr From 2	om 24		2162 ace.	. P1	ug			
						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Sull						
	<u> </u>								SIM						

